

Docket No.: 4040/1K201US2
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Mark I. Greene, et al.

Application No.: Not Yet Assigned

Group Art Unit: 1653

Filed: Concurrently Herewith

Examiner: A. Mohamed

For: METHODS OF INHIBITING OSTEOCLAST
ACTIVITY

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In order to comply with the duty to disclose information under 37 C.F.R. § 1.56, Applicants submit herewith an Information Disclosure Statement pursuant to 37 C.F.R. § 1.97 and 1.98. In particular, Applicants submit herewith a Form PTO/SB/08a (Substitute to Form PTO-1449) listing references AA-DJ for consideration by the Examiner. This application is a divisional of U.S. patent application Serial No. 09/628,665 filed July 28, 2000 ("the '665 application"). To avoid overburdening the Examiner, copies of the references cited in this IDS are not submitted herewith, as the references are already of record in the '665 application. However, Applicants will gladly provide copies of the cited references to the Examiner upon request.

Applicants are submitting this IDS concurrently with the present divisional application and in accordance with 37 C.F.R. § 1.97(b). It is therefore believed that no fee is required for this submission. However, should the U.S. Patent and Trademark Office determine that any fee is required or that any refund is due for this application, the Commissioner is hereby authorized and

requested to charge any required fees and/or credit any refunds due to our Deposit Account No. 04-0100.

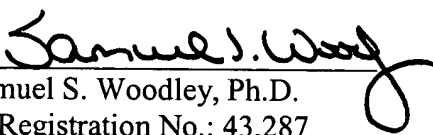
It is requested that each document cited (including any reference or other document cited in Applicant's specification which is not repeated in the attached Form PTO/SB/08a) be given thorough consideration by the Examiner, and that it be cited of record in the prosecution history of this application by initialing Form PTO/SB/08a next to the document. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection or otherwise does not consider it to be prior art for any reason. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

Although this Information Disclosure Statement is being submitted in compliance with 37 C.F.R. § 1.56, the citation of a document in the accompanying Form PTO/SB/08a is not to be construed as an admission that such document is necessarily relevant or that the document is prior art to the present application. No representation is intended that the cited documents represent the result of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 C.F.R. §§ 1.104(a) and 1.106(b).

Early and favorable consideration is earnestly solicited.

Dated: July 22, 2003

Respectfully submitted,

By 
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Mark I. Greene
				Art Unit	1653
				Examiner Name	A. Mohamed
Sheet	1	of	3	Attorney Docket Number	4040/1K201US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA.	4,215,051	7/29/80	Schroeder et al.	
	AB.	4,946,778	8/7/90	Ladner et al.	
	AC.	5,470,952	11/28/95	Stahl et al.	
	AD.	5,849,865	12/15/98	Cheng et al.	
	AE.	5,955,425	9/21/99	Morley et al.	
	AF.	5,985,832	11/16/99	Roodman et al.	
	AG.	5,869,452	2/9/99	Ng et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	AH	EP 0 045 665	5/8/81			
	AI	WO 98/53842	12/3/1998			
	AJ	WO 99/58674	11/18/99			

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	AK	Ahmed et al., The Journal of Biological Chemistry, 250(21):8477-8482, November 1975			
	AL	Albericio et al., Int. J. Peptide Protein Res. 26:92-97, 1985			
	AM	Anderson et al. Nature, Vol. 390, pp. 175-179, November 13, 1997			
	AN	Banner et al., Cell, 73:431-445, May 1993			
	AO	Beutler et al., Science, 264:667-668, April 1994			
	AP	Beutler et al., Annals of The New York Academy of Sciences, 730:118-133, 1994			
	AQ	Bowie et al. Science, Vol. 247, pp. 1306-1310, 1990			
	AR	Brisson et al., Nature, 310:511-514, August 1984			
	AS	Broglie et al., Science 224:838-843, May 1984			
	AT	Bucay et al., Genes Dev., 12(9):1260-1268, 1998			
	AU	Cole et al., Monoclonal Antibodies and Cancer Therapy, 77-96, January-February 1985			
	AV	Coruzzi et al., The EMBO Journal 3(8):1671-1679			
	AW	Cote et al., Proc. Natl. Acad. Sci. USA, 80:2026-2030, 1983			
	AX	Döring et al., Molecular Immunology, 31(14):1059-1067, 1994			
	AY	Filvaroff, Current Biology, 8:R679-682, 1998			
	AZ	Fox et al. Biochem. Biophys. Res. Comm., Vol. 276, pp. 868-872, 2000			

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				Examiner Name	A. Mohamed
Sheet	2	of	3	Attorney Docket Number	4040/1K201US2

BA	Fingl et al., "General Principles," In: The Pharmacological Basis of Therapeutics, Chapter 1, 1-46, 1975	
BB	Fuller, K., et al., "TRANCE is necessary and sufficient for osteoblastmediated activation of bone resorption in osteoclasts," <i>Database Chemical Abstracts on STN, No. 129:314804</i> , Abstract, J. Exp. Med., 1998, 188(5), 997-1001	
BC	Gruss et al., Cytokines and Molecular Therapy 1:75-105, May 1995	
BD	Gurley, et al., Molecular and Cellular Biology, 6:559-565, February 1986	
BE	Habeeb, A.F.S.A., Analytical Biochemistry, 56:60-65, 1973	
BF	Hann et al., J. Chem. Soc. Perkin Trans., I, 307-314, 1982	
BG	Holladay et al. Tetrahedron Letters, 24(41):4401-4404, 1983	
BH	Houghten et al. Cell, Vol. 93, pp. 165-176, April 17, 1998	
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BJ	Hruby et al., Life Sciences, 31:189-199, 1982	
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BL	Huse, et al., Science, 246:1275-1281, December 1989	
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BP	Köhler et al., Nature, 256:495-497, 1975	
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BW	Li J. et al., PNAS, 97(4):1566-1571, 2000	
BX	Livingstone, David M., Methods in Enzymology, Affinity Techniques, 723-731, 1974	
BY	Logan et al., Proc. Natl. Acad. Sci. USA, 81:3655-3659, June 1984	
BZ	Mackett et al., Proc. Natl. Acad. Sci. USA 79:7415-7519, December 1982	
CA	Mackett et al., Journal of Virology, 49(3):857-864, March 1984	
CB	McOsker et al., J. Bone & Mineral Research, Twelfth Annual Meeting of the American Society for Bone and Mineral Research, 5(Supp 2):S105, No. 128, Abstract, Aug. 28-31, 1990	
CC	Moore et al., Techniques in Protein Chemistry VII, Marsak (ed.) 81-91, 1996	
CD	Morley, J.S., Trends Pharm. Sci., 463-468, December 1980	
CE	Morrison et al., Proc. Natl. Acad. Sci. USA, 81:6851-6855, November 1984	
CF	Mortensen et al., J. Clinical Endocrinology and Metabolism, 83(2):396-402, 1998	
CG	Nakagawa, N., et al., "RANK is the essential signaling receptor for osteoclast differentiation factor in osteoclastogenesis" <i>Database Chemical Abstracts on STN, No. 130:166173</i> , Abstract, Biochem. Biophys. Res. Commun., 1998, 253(2), 395-400	
CH	Neuberger et al., Nature, 312:604-608, December 1984	
CI	Nicholson et al., J. Clinical Investigation, 78:355-360, August 1986	
CJ	Panicali et al., Proc. Natl. Acad. Sci. USA, 79:4927-4931, August 1982	
CK	Peppel et al., J. Exp. Med., 174:1483-1489, December 1991	
CL	Ponder et al., J. Mol. Biol., 193:775-791, 1987	
CM	Scimeca, J.C., Bone, 26(3):207-213, 2000	
CN	Shalhoub, V. et al., British J. of Haematology, 111:501-512, 2000	

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CO	Shalhoub et al., J. Cellular Biochem., 72(2):251-261, 1999	
CP	Sietsema et al., Drugs Exptl. Clin. Res., XV(9):389-396, 1989	
CQ	Simonet et al., Cell, 89(2):309-319, 1997	
CR	Singer et al., J. Clinical Endocrinology and Metabolism, 83(6):1906-1910, 1998	
CS	Siris et al., J. Bone and Mineral Research, 13(6):1032-1038, 1998	
CT	Smith et al., Journal of Virology, 46:584-593, May 1983	
CU	Spatola, A. F., Chemistry and Biochemistry of Amino Acids, Peptides, and Proteins, 7:267-357, 1983	
CV	Spatola et al., Life Sciences, 38:1243-1249, 1986	
CW	Suda et al., Endocrine Reviews 20(3):345-357, June 1999	
CX	Suda et al., Novartis Found Symp, 232: 235, 2001 (Abstract)	
CY	Takamatsu et al., EMBRO Journal, 6(2):307-311, 1987	
CZ	Takasaki et al., Nature Biotechnology, 15:1266-1270, 1997	
DA	Takeda et al., Nature 314:452-454, 1985	
DB	Tam et al., Synthesis, 955-957, December 1979	
DC	Van Beck E., J. Bone and Mineral Research, 11(10):1492-1497, 1996	
DD	Weitzmann et al., J. of Bone and Mineral Research, 16(2):328-337, 2001	
DE	Williams et al., Immunology, 84:433-439, 1995	
DF	Wong et al. Journal of Leukocyte Biology, 65:715-724, June 1999	
DG	Yamaguchi et al., J. of Biological Chemistry, 273(9):5177-5123, Feb. 28, 1998	
DH	Yasuda et al. Proc. Natl. Acad. Sci. USA., Vol. 95 pp. 3597-3602, March 1998	
DI	Zhang et al., Nature Biotechnology, 14:472-475, April 1996	
DJ	Zhang et al., Nature Biotechnology, 15:150-154, 1997	

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